

11-26-01

Box seq A

11/06/01

J1041 U.S. PTO



J1002 U.S. PTO

09/06/01



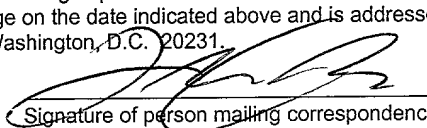
## Certificate of Mailing

Date of Deposit November 6, 2001Label Number: EL509047193US

I hereby certify under 37 C.F.R. § 1.10 that this correspondence is being deposited with the United States Postal Service as "Express Mail Post Office to Addressee" with sufficient postage on the date indicated above and is addressed to: BOX PATENT APPLICATION, Assistant Commissioner for Patents, Washington, D.C. 20231.

Luis A. Cruz

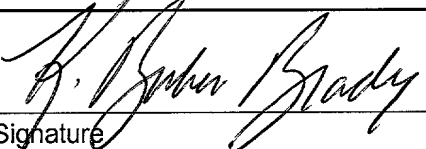

Printed name of person mailing correspondence

  
 Signature of person mailing correspondence

## UTILITY PATENT APPLICATION TRANSMITTAL UNDER 37 C.F.R. § 1.53(b)

|  |   |
|--|---|
| Attorney Docket Number   | 01997/201006  |
| Applicant  | H. Robert Horvitz and Michael Hengartner  |
| Title  | IDENTIFICATION AND CHARACTERIZATION OF A GENE WHICH PROTECTS CELLS FROM PROGRAMMED CELL DEATH AND USES THEREFOR |
| <b>PRIORITY INFORMATION:</b>   |   |
| This application is a continuation-in-part of and claims priority from United States patent application U.S.S.N. 09/234,186, filed on January 20, 1999, which in turn is a divisional of U.S.S.N. 08/801,248, filed on February 19, 1997, now abandoned, which in turn is a continuation of U.S.S.N. 08/288,295, filed on August 10, 1994, now abandoned, which in turn is a divisional of U.S.S.N. 07/927,681, filed on August 10, 1992, now abandoned, and, which in turn is a continuation-in-part of U.S.S.N. 07/898,933, filed on June 12, 1992, now abandoned. |   |
| <b>SMALL ENTITY STATUS:</b>  |   |
| <input type="checkbox"/> Applicant claims small entity status under 37 C.F.R. § 1.27.  |   |
| <b>APPLICATION ELEMENTS:</b>   |   |
| Cover sheet  | 1 page  |
| Specification  | 55 pages  |
| Claims   | 1 page  |
| Abstract   | 1 page  |
| Drawing  | 22 sheets   |
| Combined Declaration and POA, which is:<br><input type="checkbox"/> Unsigned;<br><input type="checkbox"/> Newly signed for this application;<br><input type="checkbox"/> A copy from prior application [ <b>**SERIAL NUMBER**</b> ] and the entire disclosure of the prior application is considered as being part of the disclosure of this new application and is hereby incorporated by reference therein.  | 3 pages   |
| Sequence Statement   | 2 pages   |
| Sequence Listing on Paper  | 13 pages  |
| Sequence Listing on Diskette   | 1 disk  |

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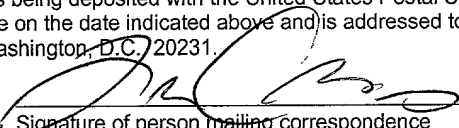
|   |   |
|---|---|
| Small Entity Statement, which is:<br><input type="checkbox"/> A copy from prior application [**SERIAL NUMBER**] and such small entity status is still proper and desired.   | [**] pages  |
| Preliminary Amendment   | [**] pages  |
| IDS   | [**] pages  |
| Form PTO 1449   | [**] pages  |
| Cited References  | [**] references   |
| Recordation Form Cover Sheet and Assignment   | [**] pages  |
| English Translation   | [**] pages  |
| Certified Copy of Priority Document   | [**] pages  |
| Return Receipt Postcard   | 1   |
| <b>FILING FEES:</b>   |   |
| Basic Filing Fee: \$740   | \$740.00  |
| Excess Claims Fee: $18 - 20 = 0 \times \$18$  | \$0.00  |
| Excess Independent Claims Fee: $3 - 3 = 0 \times \$84$  | \$0.00  |
| Multiple Dependent Claims Fee: \$280  | \$280.00  |
| Total Fees:   | \$1,020.00  |
| <input checked="" type="checkbox"/> Enclosed is a check for 1,020.00 to cover the total fees.<br><input type="checkbox"/> Charge [**AMOUNT**] to Deposit Account No. 03-2095 to cover the total fees.<br><input type="checkbox"/> The filing fee is not being paid at this time.<br><input checked="" type="checkbox"/> Please apply any other charges, or any credits, to Deposit Account No. 03-2095. |   |
| <b>CORRESPONDENCE ADDRESS:</b>  |   |
| Kristina Bieker-Brady, Ph.D.<br>Reg. No. 39,109<br>Clark & Elbing LLP<br>176 Federal Street<br>Boston, MA 02110<br><div style="text-align: right;">             Telephone: 617-428-0200<br/>             Facsimile: 617-428-7045           </div>   |   |
| <b>CUSTOMER NO: 21559</b>   |   |
| <br>Signature  | <br>Date |

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21559

PATENT, TRADEMARK OFFICE

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| Date of Deposit <u>November 6, 2001</u>  | Label Number: <u>EL509047193US</u>   |
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| <u>Luis A. Cruz</u><br>Printed name of person mailing correspondence   | <br>Signature of person mailing correspondence |

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: H. Robert Horvitz et al.

Art Unit:

Serial No.:

Examiner:

Filed: November 6, 2001

Customer No.: 21559

Title: IDENTIFICATION AND CHARACTERIZATION OF A GENE  
WHICH PROTECTS CELLS FROM PROGRAMMED CELL DEATH  
AND USES THEREFOR

Assistant Commissioner For Patents  
Washington, D.C. 20231

STATEMENT UNDER 37 C.F.R. § 1.821

As part of the patent application filed herewith, enclosed is a sequence listing in accordance with the requirements of 37 C.F.R. §§ 1.821 through 1.825 and consisting of 13 pages.

As required by 37 C.F.R. § 1.821(c), the sequence listing appears as a separate part of the application and is found after the Combined Declaration and Power of Attorney. Each sequence in the application appears separately in the sequence listing. And each sequence in the sequence listing is assigned a separate sequence identifier.


As required by 37 C.F.R. § 1.821(d), the sequence identifiers are used throughout

| 2. Demographics          |      |
|--------------------------|------|
| Age                      | 50.0 |
| Gender                   | 50.0 |
| Marital status           | 50.0 |
| Education                | 50.0 |
| Income                   | 50.0 |
| Occupation               | 50.0 |
| Health status            | 50.0 |
| Smoking status           | 50.0 |
| Alcohol consumption      | 50.0 |
| Exercise frequency       | 50.0 |
| Dietary habits           | 50.0 |
| Stress levels            | 50.0 |
| Sleep patterns           | 50.0 |
| Family size              | 50.0 |
| Religious beliefs        | 50.0 |
| Political views          | 50.0 |
| Travel frequency         | 50.0 |
| Pets ownership           | 50.0 |
| Volunteering             | 50.0 |
| Substance use            | 50.0 |
| Chronic conditions       | 50.0 |
| Medication use           | 50.0 |
| Genetic testing          | 50.0 |
| Health insurance         | 50.0 |
| Medical history          | 50.0 |
| Family medical history   | 50.0 |
| Genetic predisposition   | 50.0 |
| Environmental factors    | 50.0 |
| Work-life balance        | 50.0 |
| Financial stability      | 50.0 |
| Emotional well-being     | 50.0 |
| Social support           | 50.0 |
| Life satisfaction        | 50.0 |
| Personal growth          | 50.0 |
| Resilience               | 50.0 |
| Optimism                 | 50.0 |
| Gratitude                | 50.0 |
| Forgiveness              | 50.0 |
| Compassion               | 50.0 |
| Empathy                  | 50.0 |
| Kindness                 | 50.0 |
| Generosity               | 50.0 |
| Patience                 | 50.0 |
| Humility                 | 50.0 |
| Modesty                  | 50.0 |
| Shyness                  | 50.0 |
| Introversion             | 50.0 |
| Extroversion             | 50.0 |
| Sensitiveness            | 50.0 |
| Emotional stability      | 50.0 |
| Neuroticism              | 50.0 |
| Conscientiousness        | 50.0 |
| Agreeableness            | 50.0 |
| Openness to experience   | 50.0 |
| Intellectual curiosity   | 50.0 |
| Creativity               | 50.0 |
| Imagination              | 50.0 |
| Artistic ability         | 50.0 |
| Technical skills         | 50.0 |
| Problem-solving          | 50.0 |
| Decision-making          | 50.0 |
| Leadership               | 50.0 |
| Teamwork                 | 50.0 |
| Communication            | 50.0 |
| Interpersonal skills     | 50.0 |
| Conflict resolution      | 50.0 |
| Stress management        | 50.0 |
| Time management          | 50.0 |
| Organization             | 50.0 |
| Productivity             | 50.0 |
| Efficiency               | 50.0 |
| Resourcefulness          | 50.0 |
| Adaptability             | 50.0 |
| Flexibility              | 50.0 |
| Resilience               | 50.0 |
| Perseverance             | 50.0 |
| Determination            | 50.0 |
| Commitment               | 50.0 |
| Responsibility           | 50.0 |
| Accountability           | 50.0 |
| Integrity                | 50.0 |
| Honesty                  | 50.0 |
| Trustworthiness          | 50.0 |
| Reliability              | 50.0 |
| Consistency              | 50.0 |
| Stability                | 50.0 |
| Endurance                | 50.0 |
| Longevity                | 50.0 |
| Healthspan               | 50.0 |
| Quality of life          | 50.0 |
| Life expectancy          | 50.0 |
| Mortality risk           | 50.0 |
| Survival rate            | 50.0 |
| Prognosis                | 50.0 |
| Recovery rate            | 50.0 |
| Remission rate           | 50.0 |
| Recurrence rate          | 50.0 |
| Complication rate        | 50.0 |
| Morbidity rate           | 50.0 |
| Mortality rate           | 50.0 |
| Life expectancy at birth | 50.0 |
| Life expectancy at 65    | 50.0 |
| Life expectancy at 75    | 50.0 |
| Life expectancy at 85    | 50.0 |
| Life expectancy at 95    | 50.0 |
| Life expectancy at 100   | 50.0 |
| Life expectancy at 110   | 50.0 |
| Life expectancy at 120   | 50.0 |
| Life expectancy at 130   | 50.0 |
| Life expectancy at 140   | 50.0 |
| Life expectancy at 150   | 50.0 |
| Life expectancy at 160   | 50.0 |
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| Life expectancy at 180   | 50.0 |
| Life expectancy at 190   | 50.0 |
| Life expectancy at 200   | 50.0 |
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| Life expectancy at 220   | 50.0 |
| Life expectancy at 230   | 50.0 |
| Life expectancy at 240   | 50.0 |
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| Life expectancy at 260   | 50.0 |
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| Life expectancy at 390   | 50.0 |
| Life expectancy at 400   | 50.0 |
| Life expectancy at 410   | 50.0 |
| Life expectancy at 420   | 50.0 |
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| Life expectancy at 510   | 50.0 |
| Life expectancy at 520   | 50.0 |
| Life expectancy at 530   | 50.0 |
| Life expectancy at 540   | 50.0 |
| Life expectancy at 550   | 50.0 |

If there are any charges or any credits, please apply them to Deposit Account No. 03-2095.

Date:

Date: November 6, 2001

  
Kristina Bieker-Brady, Ph.D.

Reg. No. 39,109

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